

PATENT COOPERATION TREATY

MONDAY, 23 FEB 2004

From the INTERNATIONAL SEARCHING AUTHORITY

To:

Davies Collison Cave
Level 15
1 Nicholson Street
MELBOURNE VIC 3000

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year)

20 FEB 2004

Applicant's or agent's file reference
12383280/EJH/ar

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/AU2003/001647

International filing date

9 December 2003

Applicant

THE CORPORATION OF THE TRUSTEES OF THE ORDER OF THE SISTERS OF MERCY IN
QUEENSLAND et al

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after 18 months from the priority date, the international application will be published by the International Bureau.

If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/AU

AUSTRALIAN PATENT OFFICE
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David Olde

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12383280/EJH/ar	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> FOR FURTHER ACTION </div> <div> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. </div> </div>	
International application No. PCT/AU2003/001647	International filing date (<i>day/month/year</i>) 9 December 2003	(Earliest) Priority Date (<i>day/month/year</i>) 9 December 2002
Applicant THE CORPORATION OF THE TRUSTEES OF THE ORDER OF THE SISTERS OF MERCY IN QUEENSLAND et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
 - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
 - b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority in written form.
☐ furnished subsequently to this Authority in computer readable form.
☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
2. ☐ Certain claims were found unsearchable (See Box I).
3. ☐ Unity of invention is lacking (See Box II).
4. With regard to the title,

☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,

☒ the text is approved as submitted by the applicant
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.
☐ because the applicant failed to suggest a figure
☐ because this figure better characterizes the invention

☒ None of the figures

INTERNATIONAL SEARCH REPORT

 International application No.
 PCT/AU2003/001647

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: C12N 5/08, A61K 39/395

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

SEE ABOVE

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SEE BELOW

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE, CAPLUS, BIOSIS, WPIDS (Antigen presenting cells, dendritic cells, CD4, CD8 T-cells, antigen, peptide, macrophages, co-culture)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Szmania, S., <i>et al</i> ; BLOOD, (2001), 98 (3) : 505-512. Isolation and expansion of cytomegalovirus-specific cytotoxic T lymphocytes to clinical scale from single blood draw using dendritic cells and HLA-tetramers. Abstract; Page 509, col 2, para 4; Page 509 col 1, para 1.	1-8, 10-28



Further documents are listed in the continuation of Box C



See patent family annex

- * Special categories of cited documents:
- | | |
|---|--|
| "A" document defining the general state of the art which is not considered to be of particular relevance | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "E" earlier application or patent but published on or after the international filing date | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" document referring to an oral disclosure, use, exhibition or other means | "&" document member of the same patent family |
| "P" document published prior to the international filing date but later than the priority date claimed | |

 Date of the actual completion of the international search
 17 February 2004

Date of mailing of the international search report

20 FEB 2004

Name and mailing address of the ISA/AU

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Peggs, K., <i>et al</i> ; BLOOD, (2002), 99 (1): 213-223. Characterization of human cytomegalovirus peptide-specific CD8 ⁺ T-cell repertoire diversity following in vitro restimulation by antigen-pulsed dendritic cells. Abstract; Page 214 lines 23-28; Page 241 Materials and Methods first para; Page 215, col 1 Results first para; Page 218 col 2 Discussion; Page 219, col 2, lines 1-8.	1-28
X	Re, F., <i>et al</i> ; BLOOD, (November 16 2002) Vol. 100, No. 11, pp. Abstract No. 2663. Green Fluorescent Protein (GFP) Expression in Dendritic Cells Enhances Their Immunogenicity and Elicits GFP-Specific Cytotoxic T-Cell (CTL) Responses in Humans. Whole abstract	1-8, 10, 13-15, 17-21, 26-28
X	Verfuerth, S., <i>et al</i> ; BLOOD, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 27a. A versatile culture system for the in vitro expansion of autologous donor-derived cytomegalovirus, Epstein Barr virus and Aspergillus antigen-specific T cells. Whole abstract	1-8, 10-28
X	Hoffmann, T. K., <i>et al</i> ; CANCER RESEARCH, (2000 Jul 1) 60 (13) 3542-9 Generation of tumor-specific T-lymphocytes by cross-priming with human dendritic cells ingesting apoptotic tumor cells. Abstract; Introduction; Page 3546 first para.	1-8, 10-12, 15, 17-21, 26-28
X	Perez-Diez, A., <i>et al</i> ; CANCER RESEARCH, (1998 Dec 1) 58 (23) 5305-9 Generation of CD8 ⁺ and CD4 ⁺ T-cell response to dendritic cells genetically engineered to express the MART-1/Melan-A gene. Abstract; Page 5305, col 2, lines 32-end; Page 5306 col 1 lines 10-13, 24-26, last para-col 2 lines 1-5.	1-8, 10-21, 26-28
X	Ito, A., <i>et al</i> ; JOURNAL OF GASTROENTEROLOGY AND HEPATOLOGY, (2001 Mar) 16 (3) 309-16. Generation of hepatitis C virus-specific cytotoxic T lymphocytes from healthy individuals with peptide-pulsed dendritic cells. Abstract; Page 311 last para; Page 313, col 1, lines 31-33.	1-8, 10-15, 17-24, 26-28
X	Cho, H. I., <i>et al</i> ; Journal of Immunotherapy (2001 May-June) 24 (3): 242-9. Generation of cytotoxic T lymphocytes specific for human cytomegalovirus using dendritic cells in vitro. Abstract; Page 243, col 2, para 1; Page 244, col 2, para 2; Page 246, col 1, lines 14-17.	1-8, 10-28

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2003/001647

C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Peggs, K., <i>et al</i> ; BLOOD, (2001), 97 (4) : 994-1000. Induction of cytomegalovirus (CMV)-specific T-cell responses using dendritic cells pulsed with CMV antigen: novel culture system free of live CMV virions. Abstract; Page 994 - introduction; Page 995 col 1; Page 995 Materials and Methods; Page 997, col 1 para 1; Table 1; Page 999, col 1, last 2 line - col 2 lines 1-2.	1-8, 10, 11, 13-28